

# M Kum Ja

## List of Publications by Year in descending order

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23  
papers

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430874

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| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Experimental study of a sustainable cooling process hybridizing indirect evaporative cooling and mechanical vapor compression. <i>Energy Reports</i> , 2022, 8, 7945-7956.                     | 5.1  | 18        |
| 2  | A spray-assisted multi-effect distillation system driven by ocean thermocline energy. <i>Energy Conversion and Management</i> , 2021, 245, 114570.   | 9.2  | 13        |
| 3  | A hybrid indirect evaporative cooling-mechanical vapor compression process for energy-efficient air conditioning. <i>Energy Conversion and Management</i> , 2021, 248, 114798.                 | 9.2  | 30        |
| 4  | Thermodynamic optimization of a low-temperature desalination system driven by sensible heat sources. <i>Energy</i> , 2020, 192, 116633.  | 8.8  | 11        |
| 5  | Theoretical performance analysis of silica gel and composite polymer desiccant coated heat exchangers based on a CFD approach. <i>Energy Conversion and Management</i> , 2019, 187, 423-446.   | 9.2  | 44        |
| 6  | Performance evaluation of PVA-LiCl coated heat exchangers for next-generation of energy-efficient dehumidification. <i>Applied Energy</i> , 2019, 237, 733-750.                                | 10.1 | 64        |
| 7  | Approaches to energy efficiency in air conditioning: A comparative study on purge configurations for indirect evaporative cooling. <i>Energy</i> , 2019, 168, 505-515.                         | 8.8  | 34        |
| 8  | Energy, exergy and economic analysis of a hybrid spray-assisted low-temperature desalination/thermal vapor compression system. <i>Energy</i> , 2019, 166, 871-885.                             | 8.8  | 34        |
| 9  | Evaluation of a solar-powered spray-assisted low-temperature desalination technology. <i>Applied Energy</i> , 2018, 211, 997-1008.   | 10.1 | 38        |
| 10 | Energy, economic and environmental (3E) analysis and multi-objective optimization of a spray-assisted low-temperature desalination system. <i>Energy</i> , 2018, 151, 387-401.                 | 8.8  | 38        |
| 11 | Thermodynamic optimization of a vacuum multi-effect membrane distillation system for liquid desiccant regeneration. <i>Applied Energy</i> , 2018, 230, 960-973.                                | 10.1 | 28        |
| 12 | Recent developments in solid desiccant coated heat exchangers – A review. <i>Applied Energy</i> , 2018, 229, 778-803.  | 10.1 | 148       |
| 13 | Effect of hygroscopic materials on water vapor permeation and dehumidification performance of poly(vinyl alcohol) membranes. <i>Journal of Applied Polymer Science</i> , 2017, 134, .          | 2.6  | 48        |
| 14 | Studying the performance of a dehumidifier with adsorbent coated heat exchangers for tropical climate operations. <i>Science and Technology for the Built Environment</i> , 2017, 23, 127-135. | 1.7  | 21        |
| 15 | Modelling and experimental investigation of the cross-flow dew point evaporative cooler with and without dehumidification. <i>Applied Thermal Engineering</i> , 2017, 121, 1-13.               | 6.0  | 58        |
| 16 | A thermodynamic perspective to study energy performance of vacuum-based membrane dehumidification. <i>Energy</i> , 2017, 132, 106-115.   | 8.8  | 51        |
| 17 | On the second law analysis of a multi-stage spray-assisted low-temperature desalination system. <i>Energy Conversion and Management</i> , 2017, 148, 1306-1316.                                | 9.2  | 23        |
| 18 | Multivariate scaling and dimensional analysis of the counter-flow dew point evaporative cooler. <i>Energy Conversion and Management</i> , 2017, 150, 172-187.                                  | 9.2  | 42        |

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|----|--|-----|-----------|
| 19 | Unsteady-state analysis of a counter-flow dew point evaporative cooling system. Energy, 2016, 113, 172-185.  | 8.8 | 42        |
| 20 | Optimization of Solar (Thermal) Powered Membrane Based Multi-Effect Regenerator. , 2016, , .   |     | 0         |
| 21 | Experimental Study on the Performance of Membrane based Multi- effect Dehumidifier Regenerator Powered by Solar Energy. Energy Procedia, 2014, 48, 535-542.        | 1.8 | 17        |
| 22 | Adsorption Parameter and Heat of Adsorption of Activated Carbon/HFC-134a Pair. Heat Transfer Engineering, 2010, 31, 910-916.                                       | 1.9 | 21        |
| 23 | Isotherms and thermodynamics for the adsorption of n-butane on pitch based activated carbon. International Journal of Heat and Mass Transfer, 2008, 51, 1582-1589. | 4.8 | 73        |